

REMARKS

This paper is being provided in response to the Final Office Action dated December 10, 2008, for the above-referenced application. In this response, Applicants have amended claims 1-7 and 9-12 to clarify that which Applicants consider to be the presently-claimed invention. Applicants respectfully submit that the amendments to the claims are fully supported by the originally-filed specification, consistent with the discussion herein.

The rejection of claims 1-7 and 9-18 under 35 U.S.C. 102(e) as being anticipated by U.S. Patent App. Pub. No. 2004/0029640 to Masuyama, et al. (hereinafter "Masuyama") is hereby traversed and reconsideration is respectfully requested in view of the amendments to the claims contained herein.

Independent claim 1, as amended herein, recites a mobile communication terminal including first memory means and second memory means for storing data. A software platform is arranged to use data stored in said first memory means. An application program execution environment executable on said platform executes an application program using data stored in said second memory means, said application program being platform-independent. Detection means detects at least one of position, direction, attitude and movement of the mobile communication terminal along at least one axis of a coordinate system. Memory process means performs a memory process to store detection result data acquired based on detection results by said detection means in said first memory means, wherein the detection result data includes information concerning changes to the at least one of position, direction, attitude and movement of the mobile communication terminal along the at least one axis. Data transfer means transfers

the detection result data stored in said first memory means to said second memory means, according to a data transfer instruction from said application program execution environment, wherein said application program execution environment executes said application program using the detection result data stored in said second memory means. Claims 2, 3, 9 and 10 depend from independent claim 1.

Independent claim 4, as amended herein, recites a mobile communication terminal including memory means for storing data. A software platform is arranged to use data stored in said memory means. An application program execution environment executable on said platform executes an application program using data stored in said memory means, said application program being platform-independent. A 3-axis magnetic sensor and a 2-axis acceleration sensor are used as detection means for detecting at least one of position, direction, attitude and movement of the mobile communication terminal in connection with at least one axis of a coordinate system in accordance with a detection instruction generated by said application program execution environment according to a description of said application program. Memory process means stores detection result data acquired based on detection results by said detection means in said memory means, wherein the detection results include information concerning changes to the at least one of position, direction, attitude and movement of the mobile communication terminal in connection with the at least one axis, wherein said application program execution environment executes said application program using the detection result data stored in said memory means. Claims 9 and 10 depend from independent claim 4.

Independent claim 5, as amended herein, recites a mobile communication terminal including a software platform arranged to use data stored in memory means. An application

program execution environment executable on said platform executes an application program using data stored in the memory means, said application program being platform-independent. Detection means detects at least one of position, direction, attitude and movement of said mobile communication terminal in connection with at least one axis of a coordinate system. Data process means performs data process of assigning the detection data of said detection means to predetermined arithmetic expression for calculation and storing the calculation result data in said memory means, wherein the detection data includes information concerning changes to the at least one of position, direction, attitude and movement of the mobile communication terminal in connection with the at least one axis, and wherein said application program execution environment executes the application program using the calculation result data stored in said memory means. Claims 8-10 depend from independent claim 5.

Independent claim 6, as amended herein, recites a mobile communication terminal including a software platform arranged to use data stored in memory means. An application program execution environment executable on said platform executes an application program using data stored in the memory means, said application program being platform-independent. Detection means detects at least one of position, direction, attitude and movement of said mobile communication terminal in connection with at least one axis of a coordinate system. Data process means performs data processes of linking mutually between detection data of said detection means or data calculated from this detection data and other data acquired by means other than said detection means, and storing the linked data in said memory means, wherein the detection data includes information concerning changes to the at least one of position, direction, attitude and movement of the mobile communication terminal in connection with the at least one axis, and wherein said application program execution environment executes the application

program using said linked data stored in said memory means. Claims 8-10 depend from independent claim 6.

Independent claim 7, as amended herein, recites a mobile communication terminal including a software platform arranged to use data stored in memory means. An application program execution environment executable on said platform for executing an application program using data stored in the memory means, said application program being platform-independent. Detection means detects at least one of position, direction, attitude and movement of said mobile communication terminal in connection with at least one axis of a coordinate system. Data process means performs a data process of specifying at least two of detection data of said detection means or data calculated from the detection data, which meet predetermined conditions, and storing the specified data in said memory means, wherein the detection data includes information concerning changes to the at least one of position, direction, attitude and movement of the mobile communication terminal in connection with the at least one axis, and wherein said application program execution environment executes the application program using said specified data stored in said memory means. Claims 8-10 depend from independent claim 7.

Independent claim 11, as amended herein, recites a mobile communication terminal including a first memory and a second memory for storing data. A software platform is arranged to use data stored in the first memory. An application execution environment executable on the platform executes an application program using data stored in the second memory, the application program being platform-independent. At least one sensor that detects at least one of position, direction, attitude and movement of the mobile communication terminal along at least

one axis of a coordinate system. A memory processor performs a memory process to store, in the first memory, detection result data determined based on detection results by the at least one sensor, wherein the detection result data includes information concerning changes to the at least one of position, direction, attitude and movement of the mobile communication terminal in connection with the at least one axis. A data transfer device transfers the detection result data stored in the first memory to the second memory, according to a data transfer instruction from the application execution environment, wherein the application execution environment executes the application program using the detection result data stored in the second memory. Claims 12-18 depend directly or indirectly from independent claim 11.

Masuyama discloses a game system which is arranged to execute programs stored on removable cartridges. Masuyama describes providing motion detecting means for use in executing programs by means of a motion sensor contained in the removable cartridge. The Office Action indicates the latches (334, 335) in the sensor interface (33) on the cartridge (30) to be analogous to the recited "first memory means" and the work RAM (26) in the game machine (10) to be analogous to the recited "second memory means."

Applicants respectfully submit that a problem with prior art systems in the field of the presently-claimed invention is that motion sensing data is stored in software platform memory and is not readily accessible by platform-independent applications, such as JAVA applications, which are generally only permitted to access memory reserved for the application environment. In the prior art systems, the way to import this data from the platform memory for use in an application running in the environment involves complex pre-processing of the motion data and therefore in increase in the complexity of application development. The game system described

in Masuyama describes the execution of an application on the software platform, not on an application program execution environment (e.g., Sun Microsystem's JAVA runtime environment).

Applicants have clarified independent claim 1, with amendments herein, to recite that a mobile communication terminal includes a software platform arranged to use data stored in said first memory means and an application program execution environment executable on said platform for executing an application program using data stored in said second memory means, said application program being platform-independent. Specifically, unlike the game system described in Masuyama, as noted above, in which is described the execution of an application on a software platform and not on an application program execution environment, Applicants claims recite features of a system that is arranged to work with platform-independent applications. Applicants refer, for example, to the discussion in the originally-filed specification on page 3, line 24 to page 4, line 24. Applicants have clarified that the application program execution environment is not the same as a software platform and, specifically, recite that the application program execution environment is a separate environment run on the software platform that executes an application program which is platform-independent.

Similar features as those discussed above with respect to independent claim 1 are recited in the other independent claims, and the claims depending therefrom, and accordingly, the above-noted remarks may also be applied to those claims.

Accordingly, Applicants respectfully submit that Masuyama does not teach or fairly suggest at least the above-noted features as are recited by Applicants. In view of the above, Applicants respectfully request that the rejection be reconsidered and withdrawn.

The rejection of claim 8 under 35 U.S.C. 103(a) as being unpatentable over Masuyama in view of U.S. Patent No. 7,175,529 to Hartman (hereinafter "Hartman") is hereby traversed and reconsideration is respectfully requested in view of the amendments to the claims contained herein.

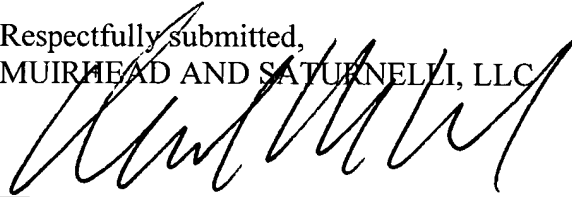
The features of Applicants' independent claims are discussed above in connection with Masuyama. Claim 8 depends therefrom.

The Hartman reference discloses a method and apparatus for an RF transmitter layout in a gaming hall. The Office Action cites to Hartman as disclosing a radio communication means for communicating by wireless communication utilizing radio waves.

Applicants respectfully submit that the Hartman reference does not overcome the above-noted deficiencies of Masuyama with respect to Applicants' presently-claimed invention. Hartman is cited, as noted above, for disclosure of radio communication and does not address, nor is cited in the Office Action in respect to, the issues discussed above in connection with Masuyama. Accordingly, Applicants respectfully submit that neither Masuyama nor Hartman, taken alone or in combination, teach or fairly suggest at least the above-noted features as claimed by Applicants. In view of the above, Applicants respectfully request that the rejection be reconsidered and withdrawn.

Based on the above, Applicants respectfully request that the Examiner reconsider and withdraw all outstanding rejections and objections. Favorable consideration and allowance are earnestly solicited. Should there be any questions after reviewing this paper, the Examiner is invited to contact the undersigned at 508-898-8603.

Respectfully submitted,
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